

Attorney's Docket No. 5716-16B

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Rao et al.
Appl No.: To be assigned
Filed: Concurrently Herewith
For: COMPOSITIONS AND METHODS FOR ALTERING
AMINO ACID CONTENT OF PROTEINS

Group Art Unit: To be assigned
Examiner: To be assigned

January 6, 2000

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Assistant Commissioner for Patents
Washington, DC 20231

**INFORMATION DISCLOSURE STATEMENT
CITATION UNDER 37 C.F.R. § 1.97**

Sir:

Attached is a list of documents on form PTO-1449. It is requested that the Examiner consider these documents and officially make them of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP. By submitting the listed documents, Applicant in no way makes any admission as to the prior art status of the listed documents, but is instead submitting the listed documents for the sake of full disclosure.

All items are attached except those that were supplied in parent Application No. 08/988,015 filed 12/10/1997. Since the benefit of this application was claimed under 35 U.S.C. 120, no copies need to be furnished in accordance with 37 C.F.R. 1.98(d); however, copies will be furnished on request.

Respectfully submitted,

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Date of Deposit: January 6, 2000

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| Sheet | 1 | of | 2 |
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Complete it Known

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|------------------------|-----------------------|
| Application Number | To be assigned |
| Filing Date | Concurrently Herewith |
| First Named Inventor | Rao et al. |
| Group Art Unit | To be assigned |
| Examiner Name | To be assigned |
| Attorney Docket Number | 5718-16B |

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U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

| Examiner Initials | Cite No. | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
|-------------------|----------|-------------------------|----------|----------------------|---|--|---|---|
| | | Office | Number | Kind Code (if known) | | | | |
| | 3 | WO | 93/08682 | | State University of New Jersey - Rutgers | 05/13/1993 | | |
| | 4 | WO | 94/16088 | | Rijksuni-Versiteit Leiden | 07/21/1994 | | |
| | 5 | WO | 95/22625 | | Affymax Technologies | 08/24/1995 | | |
| | 6 | WO | 95/31554 | | E.I. DuPont De Nemours and Company | 11/23/1995 | | |
| | 7 | WO | 96/38563 | | Pioneer Hi-Bred International, Inc. | 12/05/1996 | | |
| | 8 | WO | 97/35023 | | Pioneer Hi-Bred International, Inc. | 09/25/1997 | | |
| | 9 | WO | 97/20078 | | Affymax Technologies | 06/05/1997 | | |

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| Examiner Signature | | Date Considered | |
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***Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 2

Application Number: To be assigned

Filing Date: Concurrently Herewith

First Named Inventor: Rao et al.

Group Art Unit: To be assigned

Examiner Name: To be assigned

Attorney Docket Number: 5718-16B

Complete or Known

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|----------|--|--|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the journal (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | |
| | 10 | ALTENBACH et al., Enhancement of the Methionine Content of Seed Proteins by the Expression of a Chimeric Gene Encoding a Methionine-Rich Protein in Transgenic Plants, Plant Molecular Biology, 1989, pages 513-522, vol. 13, Belgium | |
| | 11 | SCOTT et al., Searching for Peptide Ligands with an Epitope Library, Science, 1990, pp. 386-390, vol. 249 | |
| | 12 | STASWICK, P., Novel Regulation of Vegetative Storage Protein Genes, The Plant Cell, January 1990, pages 1-6, vol. 2, | |
| | 13 | STEMMER, W., Rapid Evolution of a Protein <i>In Vitro</i> By DNA Shuffling, Nature, Aug. 4, 1994, pages 389-391, vol. 374 | |
| | 14 | STEMMER, W., DNA Shuffling by Random Fragmentation and Reassembly: <i>In Vitro</i> Recombination for Molecular Evolution, Proc. Natl. Acad. Sci. USA, Oct. 1994, ppages 10747-10751, vol. 91 | |
| | 15 | HONGDI et al., A Phage Display System for Studying the Sequence Determinations of Protein Folding, Protein Science, 1995, pp. 1108-1117, vol. 4 | |
| | 16 | MARCELLINO et al., Modified 2S Albumins with Improved Tryptophan Content are Correctly Expressed in Transgenic Tobacco Plants, FEBS Letters, 1996, pages 154-158, vol. 385 | |
| | 17 | MOLVIG et al., Enhanced Methionine Levels and Increased nutritive Value of Seeds of Transgenic Lupins (<i>Lupinus Angustifolius L.</i>) Expressing a Sunflower Seed Albumin Gene, Proc. Natl. Acad. Sci. USA, Aug. 1997, pages 8393-8398, Vol. 94, Agricultural Sciences | |
| | 18 | FRIGUET et al., Immunochemical Analysis of Protein Conformation, Protein Structure a Practical Approach, pp. 287-310, IRL Press, Oxford University Press, MRC Laboratory of Molecular Biology, Hills Road, Cambridge CB2 2QH, UK | |
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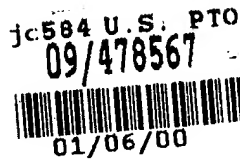


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Kindly acknowledge receipt of the accompanying DIVISIONAL PATENT
APPLICATION with Application Transmittal Cover Sheet for:

Inventor(s): Rao et al.

Title of Invention: COMPOSITIONS AND METHODS FOR ALTERING
AMINO ACID CONTENT OF PROTEINS

Pages of Spec. (including claims and abstract) 26; No. of Claims 20

No. of Drawing Sheets 8; Declaration Enclosed Yes - copy (4 pages)

Small Entity Statement Enclosed N/A;

IDS with PTO 1449 Enclosed yes-2 pages; (No. of 1449 Cites Enclosed 1)

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